



COMMONWEALTH of VIRGINIA

Department of Health DIVISION OF SHELLFISH SANITATION

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BUSH PARK AND STURGEON CREEKS

Growing Area # 032

Middlesex County

Shoreline Sanitary Survey

Date: 21 July 2008

Survey Period: May 23, 2007 – July 9, 2008

Total Number of Properties Surveyed: 1472

Surveyed By: D.R. Beuchelt and R.M. Thomas

SECTION A: GENERAL

This survey was conducted from May to July 2007, and February to July 2008. The area begins at Reference Point 33 at the end of State Route 628 to Reference Point 34 off State Route 677 and includes the Rappahannock River shoreline between these two points, Bush Park Creek, Woods Creek, Hunting Creek, Sturgeon Creek, and all of their tributaries.

During this survey period, meteorological data indicated that 49.02 "of precipitation was recorded. Monthly totals below are totals that were recorded at the Division of Shellfish Sanitation in White Stone, Virginia. A monthly breakdown follows:

May 23-31, 2007	0.01"	October 1-31	9.04"	March 1-31	3.79"
June 1-30	3.64"	November 1-30	1.14"	April 1-30	4.90"
July 1-31	2.01"	December 1-31	4.16"	May 1-31	6.57"
August 1-31	3.92"	January 1-31, 2008	1.46"	June 1-30	3.48"
September 1-30	0.67"	February 1-29	3.29"	July 1-9	0.94"

The area has experienced several major storms since the 1999 shoreline survey including Hurricane Isabel (September 2003), Tropical Depression Gaston (August 2004) and Tropical Depression Ernesto (September 2006). These storms produced heavy winds, excessive precipitation and flooding and caused significant localized damage to homes, docks, and bulkheads. Most homes along the shoreline have been repaired, however, some along the shore and inland were damaged to the point that they were non repairable.

The topography of the area varies from 10' or less along the shoreline to a maximum of 50' near the western edge of the survey boundary. Soils in the survey area tend to be highly erodible and highly permeable. The population of Middlesex County was estimated at 10,615 in 2006, and the economy is based primarily upon agriculture, commerce, and seasonal recreational activity.

Following a 2005 Chesapeake Bay Local Assistance Board mandate, in January of 2007, the Middlesex Board of Supervisors established a program to require private septic systems,

located in the Chesapeake Bay Preservation District and installed after 1993, to be pumped out at least every five years.

Copies for Bacteriological, Hydrographic and Shellfish Closure data are available at the area office for review. Copies of the current condemnation notices and maps are available via the internet at <http://www.vdh.virginia.gov/oehs/shellfish/>.

This report lists only those properties that have a sanitary deficiency or may have other environmental significance. "***DIRECT***" indicates that the significant activity or deficiency may have a direct impact on shellfish waters. Individual field forms with full information on properties listed in this report are on file in the Richmond office of the Division of Shellfish Sanitation and are available for reference until superseded by a subsequent survey of the area. Data in the report is also made available to local health departments and other agencies to address items that may be out of compliance with their regulatory programs.

SECTION B: SEWAGE POLLUTION SOURCES

SEWAGE TREATMENT FACILITIES

-None-

ON-SITE DEFICIENCIES

2. CONTRIBUTES POLLUTION (Kitchen or Laundry Wastes) – Location: 417 Bushy Park Road, Wake 23176. Dwelling – 2 story white with black shutters. No Contact. Wastes empty onto ground surface via 1 ½ - 2 inch pipe which exits from under the house. Sanitary Notice issued on 5/24/07 to Field # 37. Tax Map # 39 12A.
6. CONTRIBUTES POLLUTION – Location: 724 Bushy Park Road, Wake 23176. Dwelling – campground. Contact made with caretaker. Well curb (part of sewer system) is broken with pieces missing. No signs of malfunction at time of survey. Campsite- Lot E43. Sanitary Notice issued on 5/31/07 to Field # 174. Tax Map # 39 17.
8. CONTRIBUTES POLLUTION – Location: 724 Bushy Park Road, Wake 23176. Dwelling – campground. Campsite- Lot C26. RV – Wilderness- White with teal and purple stripes. Contact made with caretaker. Brown flexible sewer hose is cracked with a piece of the hose missing. Sanitary Notice issued on 6/8/07 to Field # 347. Tax Map # 39 17.
13. CONTRIBUTES POLLUTION – Location: 724 Bushy Park Road, Wake 23176. Dwelling – campground. Campsite- Lot I 90. Empty campsite. Contact made with caretaker. Sewer line uncapped. No signs of odor, or effluent spill at time of survey. Sanitary Notice issued on 6/18/07 to Field # 551. Tax Map # 39 17.
14. CONTRIBUTES POLLUTION – Location: 724 Bushy Park Road, Wake 23176. Dwelling – campground. Campsite- Lot I 102. Empty campsite. Contact made with caretaker. Sewer line uncapped. No signs or odor or effluent spill at time of survey. Sanitary Notice issued on 6/18/07 to Field # 561. Tax Map # 39 17.
15. CONTRIBUTES POLLUTION – Location: 724 Bushy Park Road, Wake 23176. Dwelling – campground. Campsite- Lot I 154. Empty campsite. Contact made with caretaker. Cleanout cap on sewer line is missing. No signs or odor or effluent spill at time of survey. Sanitary Notice issued on 6/19/07 to Field # 602. Tax Map # 39 17.

16. CONTRIBUTES POLLUTION – Location: 724 Bushy Park Road, Wake 23176. Dwelling – campground. Campsite - Lot I 37. Empty campsite. Contact made with caretaker. Cleanout cap on sewer line is missing. No signs or odor or effluent spill at time of survey. Sanitary Notice issued on 6/19/07 to Field # 625. Tax Map # 39 17.
22. CONTRIBUTES POLLUTION (Kitchen or Laundry Wastes) – Location: 14877 General Puller Highway, Deltaville 23043. Dwelling – 1 ½ story white with gray shingles. No Contact. Effluent from grease trap pooling onto ground surface. Area covered with plywood. Sanitary Notice issued on 6/27/07 to Field # 781. Tax Map # 39 94 A.
33. CONTRIBUTES POLLUTION (Kitchen or Laundry Wastes) – Location: 179 Timberlake Road, Deltaville 23043. Dwelling – 1 story cream-colored siding with brown shutters and brown shingles. 2 persons. Owner states wastewater from the washing machine discharges into the ditch adjacent to his house. Sign of this was not evident during the survey. Sanitary Notice issued on 7/03/08 to Field # 1355. Tax Map # 41 34.
35. NO FACILITIES – Location: 181 Lark Drive, Deltaville 23043. Dwelling – Gray mobile home with light blue stripes that has been pulled onto the property (not permanently stationed). No Contact. Appears to be used as living quarters. Sanitary Notice issued on 7/01/08 to Field # 1376. Tax Map # 40 19 18.

POTENTIAL POLLUTION

7. Location: 724 Bushy Park Road, Wake 23176. Dwelling – campground. Campsite – Lot C 17. RV – Wilderness - Cream colored with brown strips. No Contact. Hose coupler is secured to sewer line with tape. No discharge or odor present.
9. Location: 724 Bushy Park Road, Wake 23176. Dwelling – campground. Campsite - Lot B 24. RV – Dutchmen Travel Trailer – White with blue and black strips and with a screened-in addition. No Contact. Duct tape is used (to possibly secure the hose coupler) on sewer line. No discharge or odor present.
10. Location: 724 Bushy Park Road, Wake 23176. Dwelling – campground. Campsite – Lot B 7. RV – Sierra Travel Trailer – Cream colored with mauve strips and with a screened-in addition. No Contact. Hose coupler on sewer line is wrapped with duct tape (possibly to secure the coupler to the sewer line). No discharge or odor present.
12. Location: 724 Bushy Park Road, Wake 23176. Dwelling – campground. Campsite – Lot A 69. RV – Class C Dodge Concord, white. Duct tape around hose coupler on sewer line is deteriorating. Tape is used possible to secure the coupler to sewer line. No signs of malfunction.
17. Location: 724 Bushy Park Road, Wake 23176. Dwelling – Campground bathhouse. Lot I 73 A. Contact made with caretaker. Toilets are slow to flush.
20. Location: 125 Bell Air Drive, Deltaville 23043. Dwelling – ½ story, red, under renovation. Open ditch with 4" PVC uncapped sewer pipe (origin unknown) leading to ravine. Drain field is located in the front yard on the opposite side of the building. No signs of discharge.
21. Location: 14799 General Puller Highway, Deltaville 23043. Dwelling – 1 story, white siding. 2 persons. Area around septic tank and at the head of the drain lines shows tall, dark grass. No signs of odor or effluent.

23. Location: 383 Crittenden Road, Deltaville 23043. Dwelling – Tan mobile home with brown trim. No Contact. Area around septic tank shows tall, dark grass. No signs of odor or effluent.
32. Location: 17457 General Puller Highway, Deltaville 23043. Dwelling – 1 story, white cinderblock building with gray shingles. Building serves two businesses. Occupant states that in extreme precipitation the toilets are slow to flush. No signs of odor or effluent.
34. Location: 36 Kellum Drive, Deltaville 23043. Dwelling – 1 story, white with blue shutters and gray shingles. No Contact. Garage has a 1 ½ inch pipe exiting the building. No signs of effluent.
36. Location: 111 Piney Point Lane, Deltaville 23043. Dwelling – Single-wide mobile home, gray with black shutters. No Contact. Property has a septic system on-site. However, a Port-a-John was on-site, reason unknown. The 1998 survey did not indicate any problems with the property at that time.

SECTION C: NON-SEWAGE WASTE SITES

INDUSTRIAL WASTE

-None-

SOLID WASTE DUMPSITES

5. Location: 724 Bushy Park Road, Wake 23176. Campground solid waste collection site. On 5/31/07 nine solid waste dumpsters were found overflowing. Trash and garbage were scattered onto ground surface. Waste site is adjacent to a wooded area with a ravine that leads to a marsh of Bush Park Creek. Contact was made with caretaker with sanitary notice pending. *Note: site serviced by visit on 6/1/07.*

SECTION D: BOATING ACTIVITY

MARINAS

11. Location: 724 Bushy Park Road, Wake 23176. Bush Park Camping Resort. Private marina for campground patrons. Available on-site are 157 seasonal slips/moorings, electricity, water, 2 ramps, bathhouse restrooms, dump station (located at bathhouse-Field #153), fish cleaning sinks, nine solid waste dumpsters, and a camp store. Facility # 524.

OTHER PLACES WHERE BOATS ARE MOORED

3. Location: 37 Butler Lane, Hartfield 23071. Carlton Brownley private dock. Available on-site are 10 seasonal slips/moorings and solid waste containers. Facility # 1441.
4. Location: 37 Butler Lane, Hartfield 23071. Bush Park Mobile Home dock. Community ramp and pier. Available on-site are 23 seasonal slips/moorings. Facility # 526.

24. Location: 227 Otter Cove, Hardyville 23070. River Bank Acres. Community Ramp. No overnight moorings. Available on-site are 2 seasonal slips/moorings and a ramp. Facility # 1469.
25. Location: 340 Chesapeake Watch Road, Hardyville 23070. Chesapeake Watch Condos. Available on-site are 10 seasonal slips/moorings. Facility # 1740.
26. Location: 260 Heritage Point Court, Hardyville 23070. Heritage Point Estates. Available on-site are 2 seasonal slips/moorings, ramp. Facility # 1447.
27. Location: 176 Sharon Hill Dr., Hardyville 23070. Sharon Hill Estates. Available on-site are 11 seasonal slips/moorings, ramp. Facility # 1476
28. Location: 6 Bluebird Lane, Hardyville 23070. River Reach Subdivision. Available on-site are 14 seasonal slips/moorings, electricity. Facility # 1470.
29. Location: 168 Circle Drive Deltaville 23043. Sturgeon Creek Dev. Corporation. Available on-site are 13 seasonal slips/moorings. Facility # 610.
31. Location: On Sturgeon Point Loop, Deltaville 23043. Jackson Acres. Available on-site are 7 seasonal slips/moorings and a ramp. Facility # 1451.

UNDER SURVEILLANCE

1. Location: End of SR628 on Pintail Trail in the Bay Sands Subdivision, Wake 23176. Dock and ramp have been destroyed by storms. Small picnic area, with solid waste container, and beach. Facility # 1438
19. Location: Rt. 710, Adjacent to 323 Creek Drive, Deltaville 23043. Available on-site are 2 docks and 1 ramp. Facility # 1440
26. Location: 260 Heritage Point Court, Deltaville 23043. Available on-site are 2 seasonal slips/moorings and a ramp. Facility # 1447
30. Location: 281 Creekshore Drive, Deltaville 23043. Available on-site are 2 seasonal slips/moorings and a ramp. Facility # 1444.

SECTION E: CONTRIBUTES ANIMAL POLLUTION

18. Location: 13693 General Puller Highway, Hardyville 23070. Dwelling – farm with barn. Present on-site were 4 horses and 8 dogs. Wastes and manure on ground surface.

SUMMARY

Area # 032
Bush Park and Sturgeon Creeks
21 July 2008

SECTION B: SEWAGE POLLUTION SOURCES

1. SEWAGE TREATMENT FACILITIES

0 – DIRECT – None
0 – INDIRECT – None
0 – B.1.TOTAL

2. ON-SITE SEWAGE DEFICIENCIES – Correction of deficiencies in this section is the responsibility of the local health department.

0- CONTRIBUTES POLLUTION, DIRECT – None
6-CONTRIBUTES POLLUTION, INDIRECT – # 6, 8, 13, 14, 15, 16
0 – CP – (Kitchen or Laundry Wastes), DIRECT – None
3 – CP – (Kitchen or Laundry Wastes), INDIRECT – # 2, 22, 33
0 – NO FACILITIES, DIRECT – None
1 – NO FACILITIES, INDIRECT – # 35
10 – B.2. TOTAL

3. POTENTIAL POLLUTION – Periodic surveillance of these properties will be maintained to determine any status change.

11– POTENTIAL POLLUTION – # 7, 9, 10, 12, 17, 20, 21, 23, 32, 34, 36

SECTION C: NON-SEWAGE WASTE SITES

1. INDUSTRIAL WASTE SITES

0 – DIRECT – None
0 – INDIRECT – None
0 – C.1. TOTAL

2. SOLID WASTE SITES

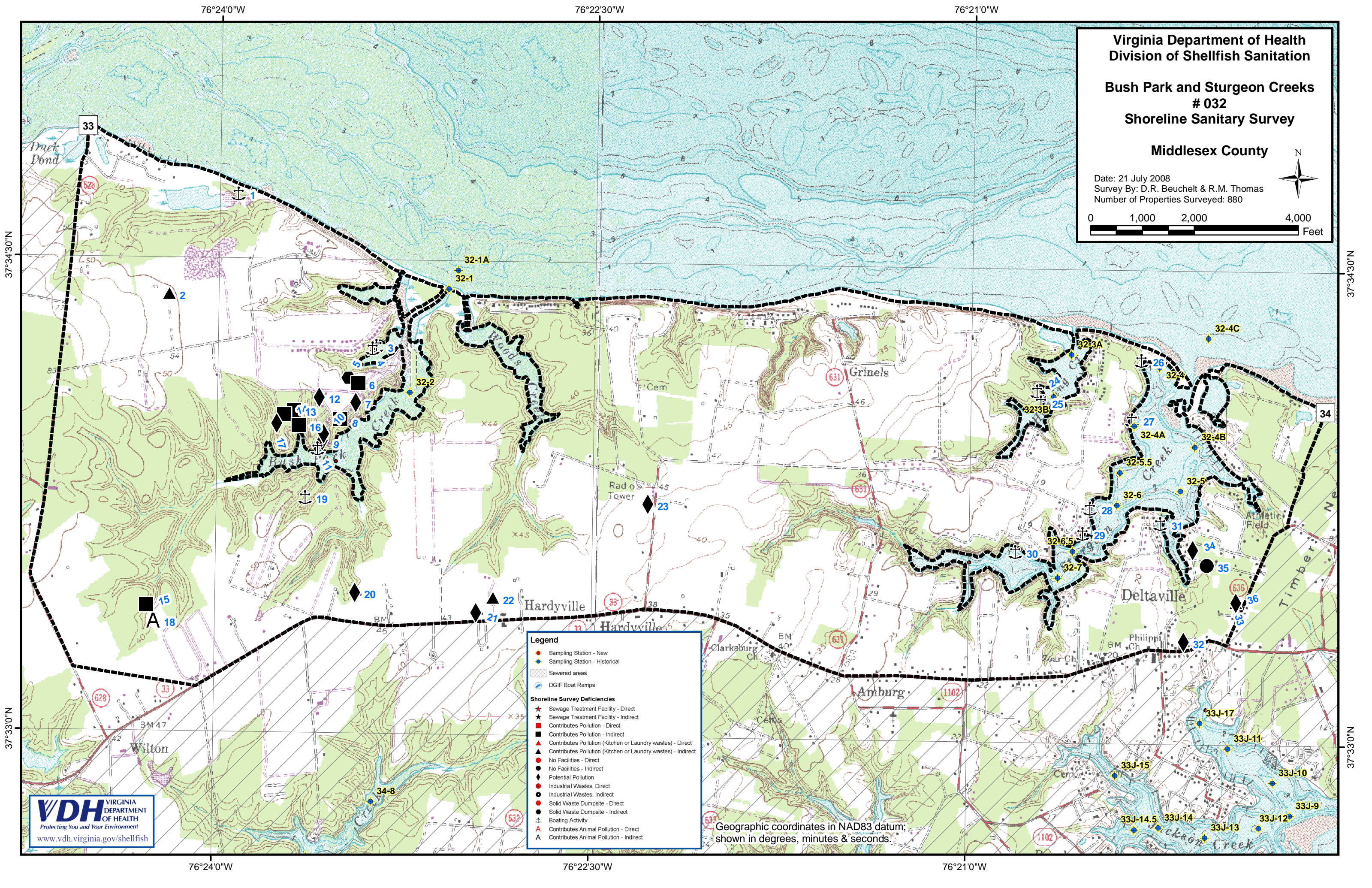
0 – DIRECT – None
1 – INDIRECT – # 5
1 – C.2. TOTAL

SECTION D: BOATING ACTIVITY

1 – MARINAS – # 11
8 – OTHER PLACES WHERE BOATS ARE MOORED – # 3, 4, 24, 25, 27, 28, 29, 31
4 – UNDER SURVEILLANCE – # 1, 19, 26, 30
13 – D. TOTAL

SECTION E: CONTRIBUTES ANIMAL POLLUTION

0 – DIRECT – None
1 – INDIRECT – # 18
1 – E. TOTAL

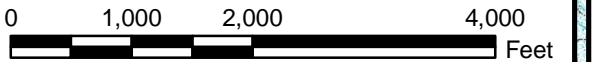


Virginia Department of Health
Division of Shellfish Sanitation

Bush Park and Sturgeon Creeks
032
Shoreline Sanitary Survey

Middlesex County

Date: 21 July 2008
Survey By: D.R. Beuchelt & R.M. Thomas
Number of Properties Surveyed: 880



- Legend**
- Sampling Station - New
 - Sampling Station - Historical
 - Sewered areas
 - DGIF Boat Ramps
- Shoreline Survey Deficiencies**
- Sewage Treatment Facility - Direct
 - Sewage Treatment Facility - Indirect
 - Contributes Pollution - Direct
 - Contributes Pollution - Indirect
 - Contributes Pollution (Kitchen or Laundry wastes) - Direct
 - Contributes Pollution (Kitchen or Laundry wastes) - Indirect
 - No Facilities - Direct
 - No Facilities - Indirect
 - Potential Pollution
 - Industrial Wastes, Direct
 - Industrial Wastes, Indirect
 - Solid Waste Dumpsite - Direct
 - Solid Waste Dumpsite - Indirect
 - Boating Activity
 - Contributes Animal Pollution - Direct
 - Contributes Animal Pollution - Indirect

Geographic coordinates in NAD83 datum;
shown in degrees, minutes & seconds.